

**AGRICULTURAL NEWS:** Record high temperatures and below normal rainfall continued to reduce soil moisture supplies throughout the State. **Topsoil moisture** as of Friday, July 30 was rated 52 percent very short, 37 percent short and 11 percent adequate. **Subsoil moisture** was rated 54 percent very short, 32 percent short and 14 percent adequate. Days suitable for fieldwork averaged 5.8 out of a possible six days.

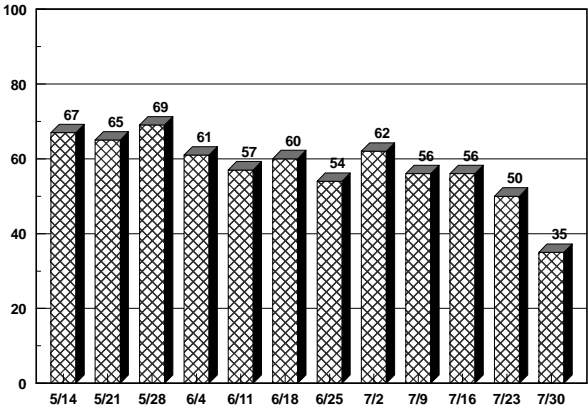
**CORN:** Record temperatures stressed corn and further reduced crop conditions. As of August 1, 81 percent had reached the milk stage or beyond, compared with 57 percent last year. Fifty-eight percent had reached the dough stage or beyond, compared to 29 percent last year. Condition of the crop rated 5 percent very poor, 14 percent poor, 28 percent fair, 48 percent good and 5 percent excellent.

**SOYBEANS:** Soybeans were 69 percent blooming or beyond, ahead of last year's 45 percent. Soybeans setting pods were reported at 40 percent compared to 26 percent last year. The soybean crop was rated 5 percent very poor, 15 percent poor, 34 percent fair, 42 percent good and 4 percent excellent. Japanese beetles continued to be a problem in some western areas of the State. Continued hot, dry conditions will cause plants to shed blooms and limit pod fill.

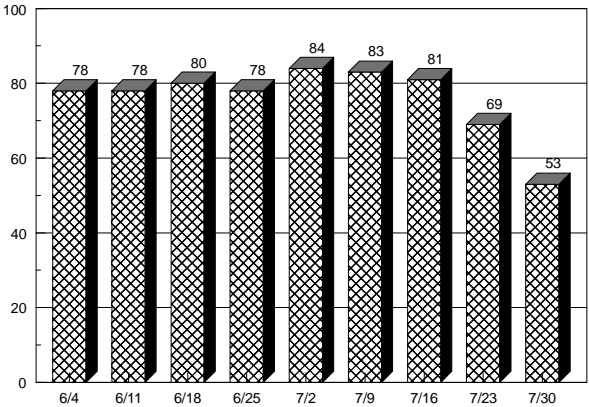
**TOBACCO:** Topping tobacco and spraying continued as main activities during the week. Black shank remains the leading problem, with reports of soreshin increasing. Dry weather conditions have halted the spread of blue mold in most areas. The percent of **burley** tobacco blooming was 67 percent, and 41 percent had been topped as of Sunday, August 1. **Dark tobacco** was 84 percent topped. Condition of all tobacco as of July 30 was rated 10 percent very poor, 18 percent poor, 37 percent fair, 29 percent good and 6 percent excellent.

**OTHER CROPS:** **Pasture** conditions continued to decline, requiring farmers to go on feeding hay to livestock. However, as hay conditions also began to worsen, and stock water supplies declined, a few farmers had resolved to selling their cattle. As of July 30, pastures were rated 22 percent very poor, 31 percent poor, 32 percent fair, 14 percent good and 1 percent excellent. The **hay** crop was mostly poor to fair for the majority of the State as mixed hay continued to be harvested. The crop was rated 19 percent very poor, 29 percent poor, 32 percent fair, 17 percent good and 3 percent excellent. Record hot temperatures put all livestock under extreme stress as producers hauled water, hay and feed to herds.

**BURLEY TOBACCO CONDITION**  
% Good to Excellent



**CORN CONDITION**  
% Good to Excellent



**KENTUCKY CROP PROGRESS**  
WEEK ENDING AUGUST 1, 1999  
WITH COMPARISONS

Crop Stage	This Week	Previous Year	5-Yr. Avg.	Previous Week KY	U.S.
Percentage					
Soybeans					
Blooming or beyond	69	45	45	59	74
Setting Pods or beyond	40	26	20	33	27
Corn					
Silking or beyond	97	91	82	92	75
Milk Stage	81	57	50	63	NA
Dough Stage	58	29	28	33	11
Burley Tobacco					
Blooming	67	55	47	53	NA
Topped	41	30	26	27	NA
Dark Tobacco					
Topped	84	60	47	57	NA

**SOIL MOISTURE**  
WEEK ENDING JULY 30, 1999  
WITH COMPARISONS

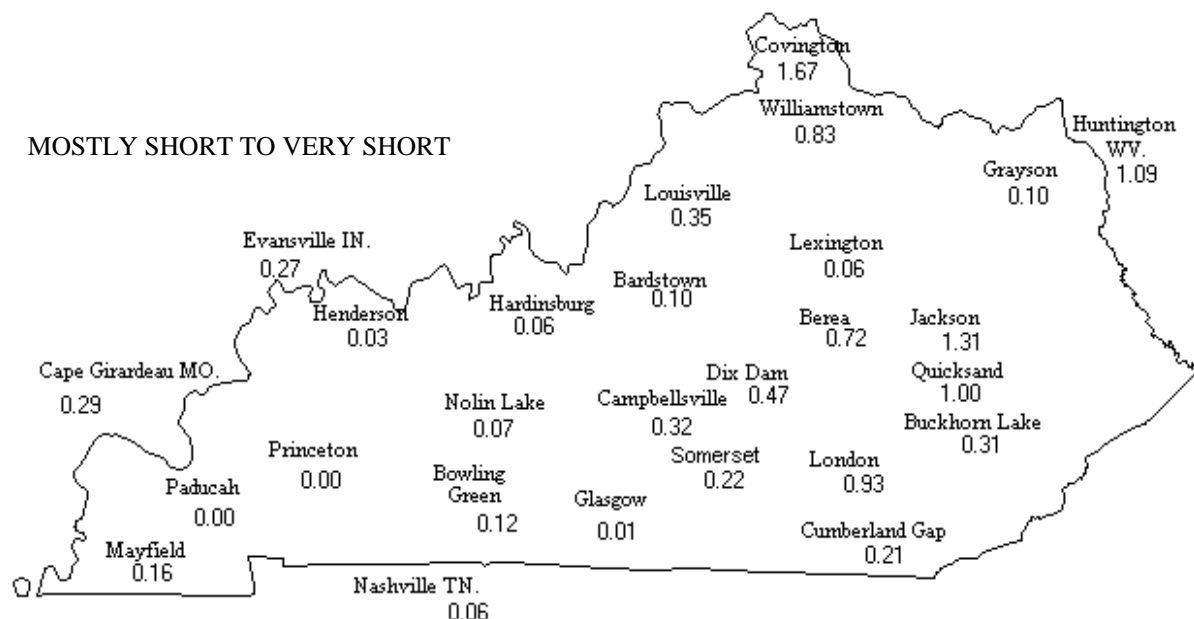
	This Week	Previous Week
Percentage		
<b>TOPSOIL</b>		
Very Short	52	31
Short	37	46
Adequate	11	22
Surplus	0	1
<b>SUBSOIL</b>		
Very Short	54	35
Short	32	39
Adequate	14	25
Surplus	0	1

(NA) Data Not Available

**KENTUCKY CROP CONDITIONS (Percent)**

CROP	WEEK ENDING JULY 30, 1999					WEEK ENDING JULY 23, 1999				
	VERY POOR	POOR	FAIR	GOOD	EXCEL- LENT	VERY POOR	POOR	FAIR	GOOD	EXCEL- LENT
Corn	5	14	28	48	5	1	8	22	49	20
Soybeans	5	15	34	42	4	0	5	26	54	15
Pasture	22	31	32	14	1	10	20	44	24	2
Hay Crops	19	29	32	17	3	8	16	43	27	6
Tobacco	10	18	37	29	6	5	13	32	40	10

**PRECIPITATION MAP FOR WEEK ENDING SUNDAY, AUGUST 1, 7:00 P.M.**  
**TOPSOIL MOISTURE DELINEATION FOR WEEK ENDING FRIDAY, JULY 30, 1999**



**KENTUCKY WEATHER SUMMARY, JULY 26 - AUGUST 1, 1999:**

**RECORD HIGH** Temperatures and **BELOW NORMAL** Rainfall:

July Ends with Record Heat and Dryness. Temperatures for the past week averaged 84 degrees across the State which was 8 degrees ABOVE NORMAL and 1 degree warmer than the previous week. RECORD high temperatures occurred on the 30th/31st with Louisville reporting 104 degrees and several additional locations exceeding 100 degrees. The tremendous heat and high humidity placed the Livestock Heat Stress Index in the Emergency category across the State for most of the latter half of the week. High temperatures averaged from 96 in the West to 95 in the East. Departure from normal high temperatures ranged from 7 degrees ABOVE NORMAL in the West to 9 degrees ABOVE NORMAL in the East. Low temperatures averaged from 74 degrees in the West to 70 degrees in the East. Departure from normal low temperature ranged from 8 degrees ABOVE NORMAL in the West to 5 degrees ABOVE NORMAL in the East. Preliminary results indicated July temperatures compare closely with 1930's temperatures and were only exceeded by 4 other year's: 1901, 1921, 1934 and 1936.

Rainfall on Sunday yielded several locations in Eastern Kentucky with 1 inch rainfall amounts...otherwise widely scattered rainfall was the rule last week. Rainfall for the week totaled 0.41 inches statewide which was 0.61 inches BELOW NORMAL. Precipitation totals by climate division, West 0.12 inches, Central 0.12 inches, Bluegrass 0.75 inches and East 0.65 inches, which was -0.78, -0.95, -0.28 and -0.45 inches respectively BELOW NORMAL. By station, precipitation totals ranged from a low of 0.00 inches at Paducah to a high of 1.67 inches at Covington. Preliminary results indicated July 1999 rainfall was in the top 10 driest Julys back to 1895 exceeded by 1936, 1944 and 1901.

Tom Priddy

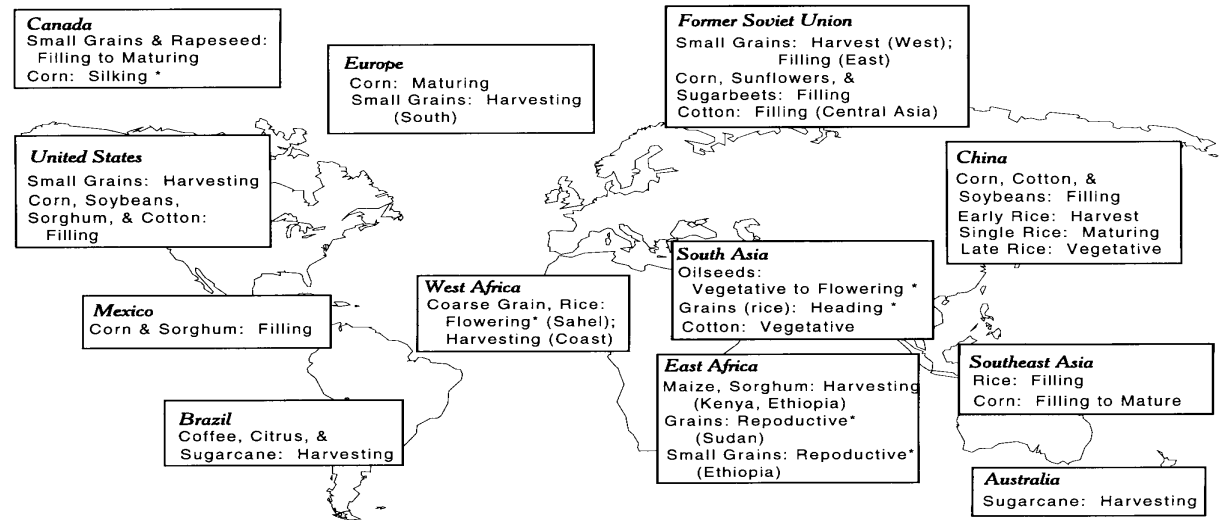
**KENTUCKY TEMPERATURES AND RAINFALL**  
**FOR WEEK ENDING SUNDAY, AUGUST 1, 7:00 P.M.**

Weather Station	Rainfall			Deviation From		Air Temperature				Growing Degree Days		
	Last Week	Since April 1	Last Four Wks	Norm Since Apr. 1	Norm Last 4 Wks	High	Low	Wkly. Avg.	Dev. From Norm	Last Week	Since Apr. 1	Dev. Since Apr.1
	(Inches)			(Degrees Fahrenheit)								
Bardstown	0.10	12.37	0.58	-4.77	-3.90	100	67	84.1	+8	201	2371	+179
Berea	0.72	12.81	2.16	-4.76	-1.82	100	60	81.2	+6	187	2357	+102
Bowling Green	0.12	10.29	0.44	-7.99	-3.80	103	69	86.4	+10	206	2551	+266
Bristol	1.02	15.03	5.69	-0.13	+1.83	94	65	79.5	+4	191	2235	+165
Buckhorn Lake	0.31	11.00	1.32	-5.97	-3.01	98	65	81.0	+6	185	2294	+317
Cape Girardeau	0.29	12.61	0.65	-4.13	-2.55	98	69	83.6	+6	203	2449	+40
Campbellsville	0.32	13.21	0.59	-6.40	-4.23	100	68	84.2	+8	198	2440	+215
Covington	1.67	10.80	2.43	-5.42	-1.37	101	69	82.6	+7	206	2218	+177
Cumberland Gap	0.21	12.57	2.80	-5.99	-1.93	97	68	81.8	+7	197	2349	+309
Dix Dam	0.47	12.00	1.47	-5.72	-2.98	100	67	82.9	+8	196	2305	+112
Evansville	0.27	16.46	1.94	+0.06	-1.68	98	71	84.0	+6	211	2378	+92
Glasgow	0.01	11.22	0.21	-8.43	-4.54	103	69	86.1	+10	202	2589	+394
Grayson	0.10	12.98	1.55	-3.73	-2.80	100	67	83.9	+9	200	2346	+429
Hardinsburg	0.06	15.85	1.04	-2.01	-3.24	104	73	87.1	+11	215	2366	+81
Henderson	0.03	15.84	0.93	-0.95	-2.73	99	69	84.4	+7	208	2485	+169
Huntington	1.09	8.07	2.25	-8.55	-2.17	101	65	83.4	+8	197	2352	+281
Jackson	1.31	12.41	3.75	-5.37	-0.95	97	69	81.8	+7	197	2336	+359
Lexington	0.06	11.13	2.04	-6.01	-2.44	103	68	83.4	+8	201	2327	+256
London	0.93	11.90	1.76	-4.77	-2.49	101	65	83.6	+8	196	2331	+291
Louisville	0.35	16.64	0.38	-0.29	-3.66	104	71	85.7	+10	210	2424	+137
Mayfield	0.16	17.12	1.09	-0.92	-2.94	100	70	84.9	+7	206	2474	+128
Nashville	0.06	13.86	2.42	-3.04	-1.15	101	72	86.4	+10	211	2669	+229
Nolin Lake	0.07	13.68	0.59	-5.42	-3.93	100	70	85.9	+10	209	2482	+381
Paducah	0.00	19.13	0.27	+0.83	-3.49	101	70	85.7	+8	210	2517	+139
Princeton	0.00	18.34	0.85	+0.31	-3.02	105	70	87.1	+9	211	2616	+269
Quicksand	1.00	13.39	4.80	-4.39	+0.10	98	64	81.1	+6	187	2292	+315
Somerset	0.22	18.03	1.66	-0.65	-2.73	101	67	83.2	+8	193	2324	+193
Spindletop	0.78	8.66	1.28	-8.48	-3.20	104	71	84.7	+9	208	2298	+227
Williamstown	0.83	8.81	2.23	-8.17	-1.84	104	69	84.6	+9	202	2361	+290

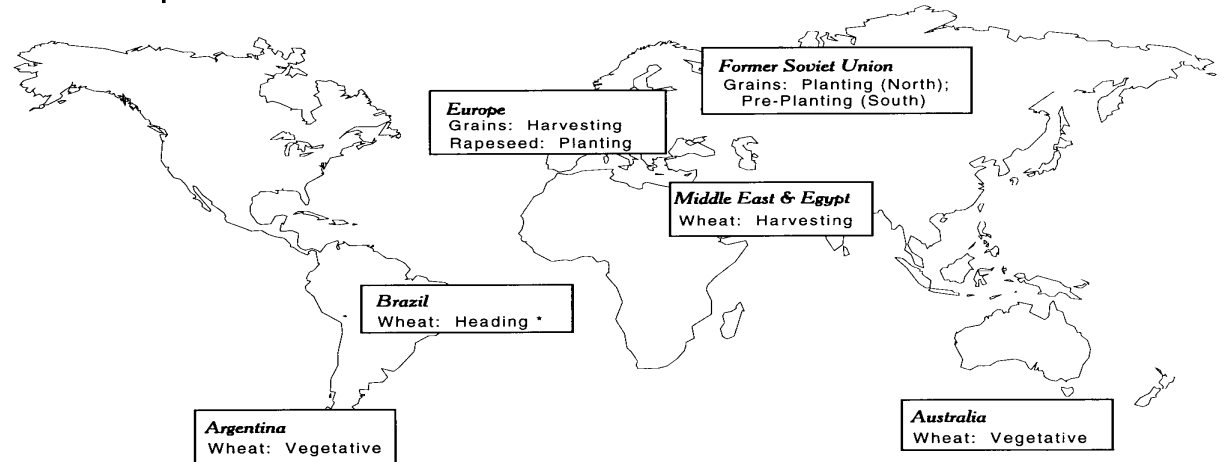
The above information is provided by Tom Priddy, Kentucky Extension Agricultural Meteorologist, University of Kentucky Agr'l Weather Center (606)257-3000 ext 245. E-mail: tpriddy@ca.uky.edu Additional Ky weather data available on Internet at: <http://www.wagwx.ca.uky.edu/>

# August normal crop calendar

## Summer crops



## Winter crops



\* Moisture / Temperature Sensitive Stage of Development

JOINT AGRICULTURAL WEATHER FACILITY (NOAA/USDA)